Specification for monolithic crystal filter: **MQF 21.4-1500/80**

1. General
   1.1. Package:

   GH9S1

   1.2. Type name: MQF 21.4-1500/80
   1.3. Number of poles: 4
   1.4. Operating temperature range: -20°C to +70°C
   1.5. Storage temperature range: -35°C to +85°C

2. Electric values
   2.1. Nominal centre frequency \( f_0 \): 21.4 MHz
   2.2. Pass band
      2.2.1. Bandwidth between 3 dB - frequencies: \( \geq f_0 \pm 7.5 \text{ kHz} \)
      2.2.2. Ripple: \( \leq 1.0 \text{ dB at } f_0 \pm 5.0 \text{ kHz} \)
      2.2.3. Insertion loss:
         (measured on smallest attenuation in pass band)
         \( \leq 1.5 \text{ dB} \)
   2.3. Stop band
      2.3.1. \( f_0 \pm 25 \text{ kHz} \) \( \geq 40 \text{ dB} \)
      2.3.2. \( f_0 \pm 50 \text{ kHz} \ldots 500 \text{ kHz} \) \( \geq 60 \text{ dB (except spurious)} \)
      2.3.3. \( f_0 \text{ - 910 kHz} \) \( \geq 75 \text{ dB} \)
   2.4. Terminating impedance R/C (input and output): 1500 \( \Omega \)/2.0 pF

   Coupling capacitance \( C_c \): 7.4 pF

3. Marking:
   Manufacturer, date code
   21.4-1500/80

4. Environment conditions:
   Corresponding to Vectron standard CF001
5. Reflow soldering for Pb-free assembly:
   > 100°C for maximum 600 seconds
   > 200°C for maximum 180 seconds
   > 260°C for maximum 30 seconds (peak temperature)
   cool-down time: 2 hours

6. Taping (500 pcs./reel)